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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/612,142	07/07/2000	Ronald Glen Feigen	IRI05275	7805
22863 75	590 06/15/2004		EXAMINER	
MOTOROLA, INC.			NALVEN, ANDREW L	
• • • • • • • • • • • • • • • • • • • •	CORPORATE LAW DEPARTMENT - #56-238 3102 NORTH 56TH STREET		ART UNIT	PAPER NUMBER
PHOENIX, AZ	Z 85018		2134	1-
			DATE MAILED: 06/15/2004	, ク

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No	Applicant(s)				
	09/612,142	FEIGEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew L Nalven	2134				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a land. In reply within the statutory minimum of thir string will apply and will expire SIX (6) MON tatute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 3	11 March 2004.					
2a) This action is FINAL . 2b) ⊠	This action is non-final.					
3) Since this application is in condition for allo						
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	ı. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the applica	tion.					
4a) Of the above claim(s) is/are with	drawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exar	niner.					
10)⊠ The drawing(s) filed on <u>07 July 2000</u> is/are:	: a)⊠ accepted or b)□ objec	ted to by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d)).			
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No	s)/Mail Date nformal Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·				

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DETAILED ACTION

1. Claims 1-18 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 1-18 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1-4, 6-10, 12-13, and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Field et al US Patent No. 6,253,324 in view of Moskowitz et al US Patent No. 5,822,432. Field discloses a system for server verification of requesting clients and Moskowitz discloses a method for random key generation and application for digital watermarks.
- 5. With regards to claims 1, 8-9, and 16-17; Field teaches the determining of memory range information identifying a range of memory space within the remote unit having data to be hashed by the hashing function (Field, Figure 3 Items 204 and 206

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and column 6 line 39 - column 7 line 40, column 7 lines 54-61) and delivering memory range information to the remote unit for use by the remote unit in performing a hashing operation (Field, column 7 lines 35-40, column 7 lines 54-61). Field's fails to teach the creation of a random number and determining position information indicative of a position within a data stream to be generated within the remote unit at which the random value it to be located. Moskowitz teaches the generating of a random value (Moskowitz, column 3 lines 24-27), the determining position information indicative of a position within a data stream to be generated within the remote unit at which the random value it to be located (Moskowitz, column 3 lines 24-30), and the delivering of the random value and position information to the remote unit (Moskowitz, column 3 lines 42-45). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Moskowitz's position determining method with Field's verification system because it offers the advantage of making it impossible for an unauthorized third party from acquiring the random value that is positioned with the data stream (Moskowitz, column 1 lines 39-45).

6. With regards to claims 2, 12, and 15, Field as modified further teaches the receiving of a hash value from the remote unit in which the hash value is a result of the hashing operation performed within the remote unit based upon the random value, memory range information, and position information delivered to the remote unit (Field, column 8 lines 6-42).

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7. With regards to claims 3 and 13, Field as modified teaches the comparing of the hash value received from the remote unit to a hash value generated outside the remote unit (Field, column 8 lines 6-42).

- 8. With regards to claim 4, Field as modified teaches the hash value being generated outside the remote unit within a communication unit that is a replica of the remote unit by showing identical storage of data (Field, column 8 lines 6-12).
- 9. With regards to claim 5, Field as modified teaches the hash value generated outside the remote unit is a result of a hashing operation based upon the random value, memory range information, and position information (Field, column 7 lines 31-40).
- 10. With regards to claim 6, Field as modified teaches the steps of generating, determining memory range information, and position information is performed in a location different from the remote unit (Field, column 6 line 39 column 7 line 40).
- 11. With regards to claim 7, Field as modified teaches a computer readable medium having program instructions stored thereon for use in implementing the method steps (Field, column 6 line 39 column 7 line 40, column 8 lines 6-42).
- 12. With regards to claim 10, Field as modified teaches the transmitter transmitting the interrogation message to the remote unit via a communications network (Field, column 4 lines 17-44).
- 13. Claims 5 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Field et al US Patent No. 6,253,324 and Moskowitz et al US Patent No. 5,822,432, as

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applied to claims 3 and 8 above, and in further view of Reeds III et al US Patent No 5,153,919.

- 14. With regards to claim 5, Field as modified fails to teach the hashing operation being based upon the random value, memory range, and position information. Reeds teaches the hash value generated outside the remote unit is a result of a hashing operation based upon the random value, memory range information, and position information (Reeds, column 5 lines 25-55, column 10 lines 3-5). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Reeds' method of hashing with Field as modified because it offers the advantage of a simple method of creating a signature for a block of data that can be easily carried out by a basic conventional processor because only simple operations are needed to complete the function (Reeds, column 5 line 65 column 6 line 2).
- 15. With regards to claim 11, Reeds teaches a local memory storing information representative of the information that should be stored in the remote unit (Field, column 5 lines 16-25) and a hash unit for performing a hashing operation on information stored within the local memory to generate a control value (Field, column 7 lines 17-40). Field as modified fails to teach the hashing operation being based upon the random value, memory range, and position information. Reeds teaches the hash value generated outside the remote unit is a result of a hashing operation based upon the random value, memory range information, and position information (Reeds, column 5 lines 25-55, column 10 lines 3-5). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Reeds' method of hashing with Field as

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modified because it offers the advantage of a simple method of creating a signature for a block of data that can be easily carried out by a basic conventional processor because only simple operations are needed to complete the function (Reeds, column 5 line 65 – column 6 line 2).

16. Claims 14 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Field et al US Patent No. 6,253,324 and Moskowitz et al US Patent No. 5,822,432, as applied to claims 8 and 15 above, in further view of Leighton et al US Patent No 5,432,852. Field as modified fails to teach a selection unit for selecting a hashing algorithm from a plurality of hashing algorithms. Leighton teaches selecting a hashing algorithm from a plurality of hashing algorithms for use by the remote unit and means for indicating the selected hashing algorithm to the remote unit (Leighton, column 14 lines 60-63). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Leighton's method of picking from a plurality of hashing algorithms with Field as modified because it makes it harder for an attacker to crack the hashing algorithm (Leighton, column 14 line 63 – column 15 line 7).

Conclusion

- 17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 18. Trostle et al US Patent No 5,919,257 teaches a network workstation intrusion detection system that uses hashes to detect intrusions.

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19. Lovelace et al US Patent No 6,263,431 teaches an operating system bootstrap

security mechanism.

20. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andrew L Nalven whose telephone number is 703 305

8407. The examiner can normally be reached on Monday - Thursday 8-6, Alternate

Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory Morse can be reached on 703 308 4789. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Nalven

MATTHEW SMITHERS
PRIMARY EXAMINER
ANT (July 2137

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